Missouri Department of Natural Resources
Air Pollution Control Program
2007 Monitoring Network Plan

May 1, 2007

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Introduction

Between the years of 1900 and 1970, emissions of pollutants into the environment increased significantly. To counter this trend and protect public and environmental health, the United States passed several laws governing pollution, including the Clean Air Act (CAA) in 1970. As a result of the CAA and its amendments, state agencies are required to establish and maintain State Implementation Plans (SIP) which outline the policies and procedures used to assure CAA compliance with the National Ambient Air Quality Standards (NAAQS) for the criteria pollutants: PM_{10}, $PM_{2.5}$, sulfur dioxide, carbon monoxide, nitrogen dioxide, ozone, and lead. Great success has taken place in reducing ambient levels of many of these pollutants in most of the nation. However, some areas, including several in Missouri, are still in violation.

In 2006, the United States Environmental Protection Agency (EPA) published new particulate matter regulations. The 24-hour $PM_{2.5}$ NAAQS was reduced substantially from 65 to 35 $\mu g/m^3$ and the annual PM_{10} NAAQS was revoked. The reduction of the 24-hour $PM_{2.5}$ standard will have a significant impact on the Missouri Department of Natural Resources' (MDNR) approach to air quality in St. Louis. The MDNR is preparing a SIP to address this problem.

The EPA is implementing a new National Ambient Air Monitoring Strategy (NAAMS). In the past, monitoring networks were deployed as separate, pollutant specific networks. The new strategy replaces this with a comprehensive network of multiple- and single-pollutant sites. The research sites (3-10 nationwide) are comprehensive, research and technology oriented sites, such as the $PM_{2.5}$ Supersite in St. Louis. The 'NCore' (National Core) sites (+/- 75 nationwide) include most criteria pollutants, $PM_{2.5}$ Speciation, and air toxics instruments. Missouri is scheduled to have two NCore sites, one each in St. Louis and Kansas City. The 'SLAMS' (State/Local Air Monitoring Stations) sites are pollutant specific sites, primarily ozone and $PM_{2.5}$. A major goal of NAAMS is integrating more sensitive and time responsive instruments, such as continous $PM_{2.5}$ monitors. For several years MDNR has been restructuring it's monitoring network with this strategy in mind. The result is the more streamlined and efficient network described in the Missouri Ambient Air Monitoring Network table, beginning on page 18.

In addition, EPA Region VII is also developing a regional monitoring strategy for rural sites. The NAAMS does not adequately address the unique rural ambient air conditions of the Midwest. The Region VII states are geographically located in the transition zone between the sulfate-dominated $PM_{2.5}$ of the eastern U.S. and the nitrate-dominated $PM_{2.5}$ of the western U.S. Midwestern states are also among the highest emitters of ammonia and have the highest monitored values of aerosol ammonium nitrate in the nation.

The SLAMS/NCore/SPMS/$PM_{2.5}$ Ambient Air Quality Monitoring Network Program consists of three major categories of monitoring stations or networks that measure the criteria pollutants. These stations are described below.

- The SLAMS consists of a network of single-pollutant monitoring stations that focus on determining NAAQS compliance.

- The NCore sites are multi-pollutant sites that focus on long-term trends and collecting data for ambient air characterization.

- The SPMS are a subset of SLAMS, i.e. single-pollutant sites, that are chosen for shorter-term monitoring projects for information and not necessarily NAAQS compliance.

The Missouri Department of Natural Resources operates an extensive network of 62 ambient air monitors at 44 sites to comply with the Clean Air Act and it's amendments (see map, page 16).

Monitoring Network Plan

The annual monitoring network plan, as provided for in 40 CFR Part 58.10, *Annual monitoring network plan and periodic network assessment*, must contain the following information for each monitoring station in the network:

1. The Air Quality System (AQS) site identification number for existing stations.
2. The location, including the street address and geographical coordinates, for each monitoring station.

3. The sampling and analysis method used for each measured parameter.
4. The operating schedule for each monitor.
5. Any proposal to remove or move a monitoring station with in a period of eighteen months following the plan submittal.
6. The monitoring objective and spatial scale of representativeness for each monitor.
7. The identification of any sites that are or are not suitable for comparison against the annual $PM_{2.5}$ NAAQS.
8. The Metropolitan Statistical Area (MSA), Core-Based Statistical Area (CBSA), Combined Statistical Area (CSA) or other area represented by the monitor.

Network Description Components

The required information described in the previous section is supplied in the Ambient Air Monitoring Network table, which begins on page 19. Components of the table are described below:

1. Site Data

All ambient air monitoring sites are recorded in the EPA's Air Quality System (AQS) database. Data includes location data such as latitude & longitutde.

AQS Site Code

The site code includes a numerical designation for State, county, and individual site. The state and county codes are assigned a number based on the alphabetical order of the State or county. Site numbers are assigned sequentially by date established in most counties. St. Louis County sites also have a division for municipality within St. Louis County.

Street Address

The official Post Office address of the lot where the monitors are located. Because not all sites are located in cities or towns, the street address is occasionally given as the intersection of the nearest streets or hiways.

Geographical Coordinates

The coordinate system used by MDNR is latitude and longitude.

Air Quality Control Region

Air Quality Control Region are defined by EPA and designate either urban regions, like St. Louis or Kansas City, or rural sections of a State, such as northeast or southwest Missouri.

AQCR	AQCR Name
070	Metropolitan St. Louis
094	Metropolitan Kansas City
137	Northern Missouri
138	SE Missouri
139	SW Missouri

Metropolitan Statistical Area

MSAs are defined by the U.S. Census Bureau.

MSA Code	MSA Name
0000	Not in a MSA
1740	Columbia, MO
3710	Joplin, MO
3760	Kansas City, MO-KS
7000	St. Joseph, MO
7040	St. Louis, MO-IL
7920	Springfield, MO

2. Monitor Data

Each monitor is designed to detect a specific chemical pollutant or group of related pollutants. A site may have one or many monitors and not all sites will have the same monitors.

Pollutant

The common name of the pollutant. "Criteria" pollutants are defined by statute in the Clean Air Act.

AQS Pollutant Code

Each pollutant has a specific numerical code to distinguish it from others. One monitor in St. Louis City uses a code of '00000' because the monitor detects an entire group of chemicals, volitile organic pollutants, which are too numerous to list individually.

Pollutant Code	Pollutant

00000	VOCs
12128	Lead
42101	Carbon Monoxide
42242	Mercury vapor
42401	Sulfur Dioxide
42402	Hydrogen Sulfide
42406	Sulfur Dioxide 5-min
42602	Nitrogen Dioxide
42604	Ammonia
43502	Formaldehyde
44201	Ozone
45201	Benzene
45202	Toluene
61103	Resultant Wind Speed
61104	Resultant Wind Direct
62101	Outdoor Temperature
62107	Indoor Temperature
62201	Relative Humidity
63301	Solar Radiation
64101	Barometric Pressure
81102	PM10
84313	Black Carbon
88101	PM 2.5 FRM
88500	PM 2.5 Tot Atmospheric
88501	PM 2.5 Raw Data
88502	PM 2.5 AQI/Speciation
88503	PM 2.5 reference

POC

The Position Occurance Code distinguishes between different monitors for the same pollutant, most often collocated monitors used for precision and quality assurance. For $PM_{2.5}$, different POCs are assigned to FRM, collocated FRM, continuous, and speciation monitors.

Collocated

Collocated monitors are used for precision and quality assurance activities, and for redundancy for critical pollutants such as ozone.

Sampling Frequency

Sampling frequency varies for each pollutant, depending on the nature of the NAAQS standard and the technology used in the monitoring method. Most gaseous pollutants use continuous monitors and are averaged over one hour. Particulate pollutants are mostly filter-based and averaged over one day.

Scale of Representation

Each monitor is intended to represent an area with similar pollutant concentration. The scales range from only a few meters to many kilometers.

MIC Microscale - defines the concentration in air volumes associated with area dimensions ranging from several meters up to about 100 meters.
MID Middle - defines the concentration typical of areas up to several city blocks in size with dimensions ranging from about 100 meters to 0.5 kilometers.
NBR Neighborhood - defines concentrations within an extended area of a city that has relatively uniform land use with dimensions in the 0.5 to 4.0 kilometers.
URB Urban - defines an overall citywide condition with dimensions on the order of 4 to 50 kilometers.
REG Regional - defines air quality levels over areas having dimensions of 50 to hundreds of kilometers.

Monitoring Objective

Each monitor has a distinct objective such as providing real-time data for public awareness or use in determining compliance with regulations.

ObjectiveCode	Objective
AQI	Public Information
COM	NAAQS Compliance
MET	Meterological Data
RES	Research
STA	State Standard

Units

The physical terms used to quantify the pollutant concentration, such as parts per million or micrograms per cubic meter.

Unit Code	Unit Description
001	$\mu g/m^3$

007	parts per million
008	parts per billion
012	miles per hour
013	knots
014	degree, compass
015	degree Fahrenheit
017	degree Celcius
018	Langleys
019	percent humidity
022	inches Mercury
025	Langleys per minute
105	$\mu g/m^3$ LC
121	parts per tillion

Monitoring/Analytical Method

Each monitor relies on a scientific principle to detemine the polltant concentration, which is described by the sampling method. Each method code is specific for a particular pollutant, therefore a three numeral code may be used for different methods for different pollutants.

$PM_{2.5}$ Standards

All sites are eligible for comparison to the annual standard except the Branch Street site. This middle-scale site is eligible only for comparison to the 24-hour standard.

Proposed Changes to Network

Missouri's ambient air network has been modified extensively in recent years in anticipation of adapting to the new National Ambient Air Monitoring Strategy. Many NO_2, SO_2, and CO monitors have been removed, many $PM_{2.5}$ FRM samplers replaced by continuous $PM_{2.5}$ samplers, and sites identified for future NCore sites. Minimal changes to the network are described here. In the future, a network assessment will evaluate further changes.

1. Mound St. Redesignation to Neighborhood Scale.

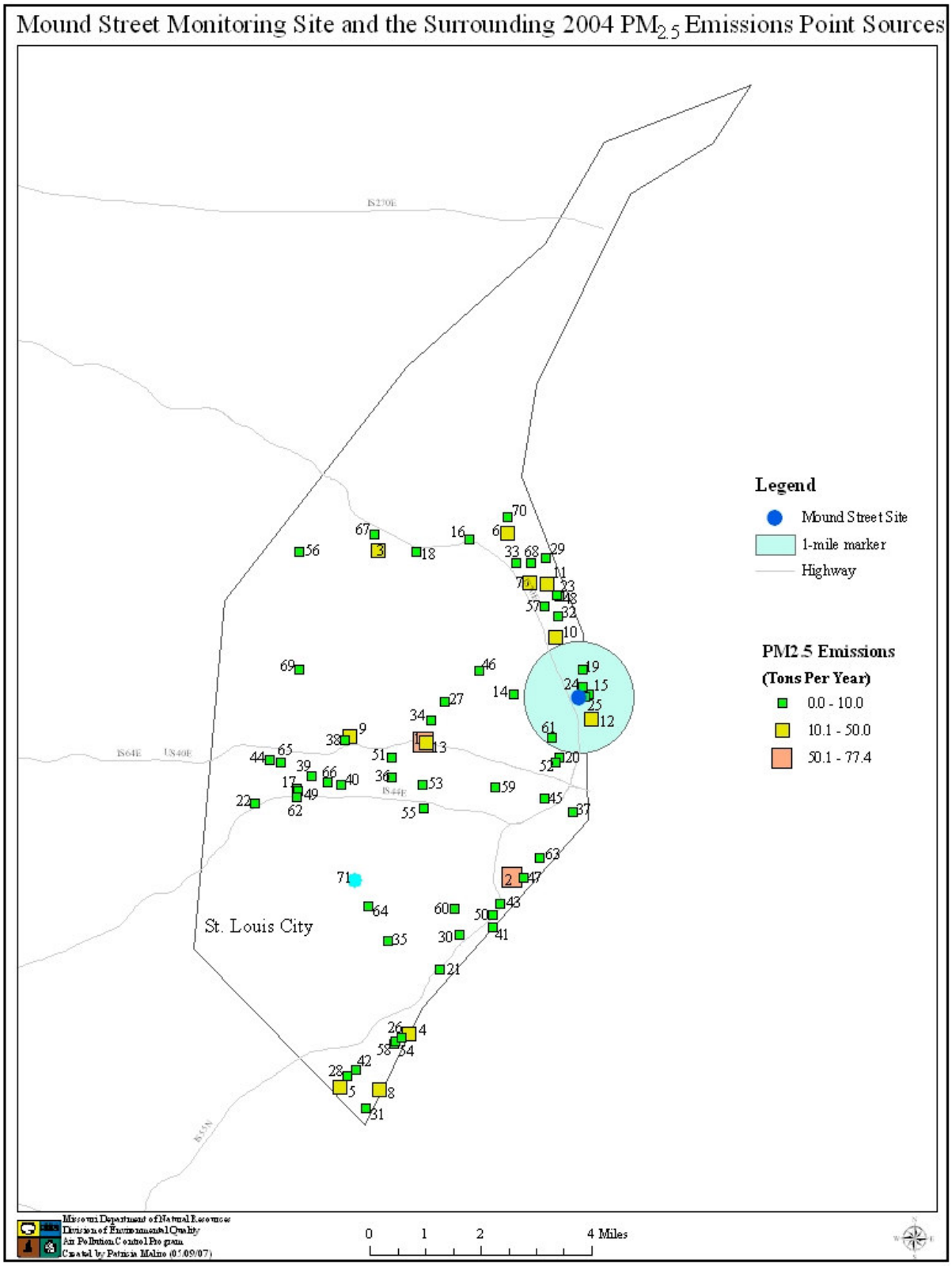
The Mound Street site was installed in November 1999. The original intent of the site was to monitor peak concentrations of nearby primary sources at middle-scale. Since then, there have been changes to the surrounding area sources such that the site now meets the neighborhood scale, which is the preferred scale for $PM_{2.5}$. Recent monitoring data (Table 1) shows that Mound St. site and Blair St., a nearby neighborhood scale site, have very similar design values over the past four years. As can be seen in Figure 1, there are no large sources within 1 mile of the site. We intend to propose to Region VII that Mound St. be redesignated to neighborhood-scale. As a middle-scale site, the only applicable $PM_{2.5}$ standard was the 24-hour $PM_{2.5}$ NAAQS. As a neighborhood-scale site, both the annual and the new revised 24-hour $PM_{2.5}$ NAAQS are applicable.

Table 1. Annual $PM_{2.5}$ Mass for 2003-6

	24-hr Std = 35 µg/m^3; 98th percentile				Design Value	
Missouri	2003	2004	2005	2006	03-05	04-06
Blair St	**32.0**	**27.9**	**40.3**	**30.5**	**33.4**	**32.9**
Mound St	**33.2**	**30.3**	**40.8**	**31.8**	**34.8**	**34.3**

	Annual Mean Std = 15.0 µg/m^3				Design Value	
Missouri	2003	2004	2005	2006	03-05	04-06
Blair St	**14.1**	**13.2**	**16.1**	**13.6**	**14.5**	**14.3**
Mound St	**14.7**	**13.6**	**15.9**	**13.8**	**14.7**	**14.4**

Figure 1


Mound Street Monitoring Site and the Surrounding 2004 PM2.5 Emissions Point Sources
Legend
Mound Street Site
1-mile marker
Highway
PM2.5 Emissions
(Tons Per Year)
0.0 - 10.0
10.1 - 50.0
50.1 - 77.4
St. Louis City
IS270E
IS64E
US40E
IS44E
IS55N
0
1
2
4 Miles
Missouri Department of Natural Resources
Division of Environmental Quality
Air Pollution Control Program
Created by Patricia Malino (05/09/07)

2. Ferguson PM_{10} Monitoring Site Relocation

The current PM_{10} network of the St. Louis area meets the new minimum requirement of 6 monitoring sites in an urban area with >1,000,000 population and having PM_{10} Design Criteria that has exceeded NAAQS by 20% or more.

The Ferguson site is recommended for relocation. This site has monitored low particulate values over the years and is now comparable to the rural levels at 33.0 $\mu g/m^3$ (Figure 2). It is located in an area that does not have nearby point sources and is to the south of I-70 (Figure 3). New CFR sections dealing with PM_{10} network design indicate middle-scale sampling in population oriented areas as a desired objective. It is recommended that this site be moved to a middle scale location with respect to nearby sources. Some potential site locations may be near quarry operations given the potential for low level emissions to impact residential or commercial areas nearby.

Potential areas are shown in Figure 4. These areas are all near large point sources of => 10 tons per year (tpy) in PM_{10} emissions. Two of the potential areas have 2 or more of the relatively larger point sources, some of which are quarry operations. In addition, these areas are either near some of the busiest highways in the area or are bounded by them and are fairly highly populated. With the winds mostly from the south and moderately heavy winds from northwest (Figures 2 and 3), a site at any of the potential locations will more than likely be able to capture some of the representative PM_{10} emission impacts to which people area exposed in the area. Priority should be given to those areas that have a high concentration of point sources, particularly quarry operations, and are in high-populated areas that are downwind of sources. Relocation of the Ferguson site will ensure that the minimum requirement of 6 PM_{10} monitoring sites in the St. Louis area is still being met, in accordance with 40 CFR Part 58 Appendix D.

Figure 2: St. Louis (MO) Area 1st Maximum PM10 Concentration

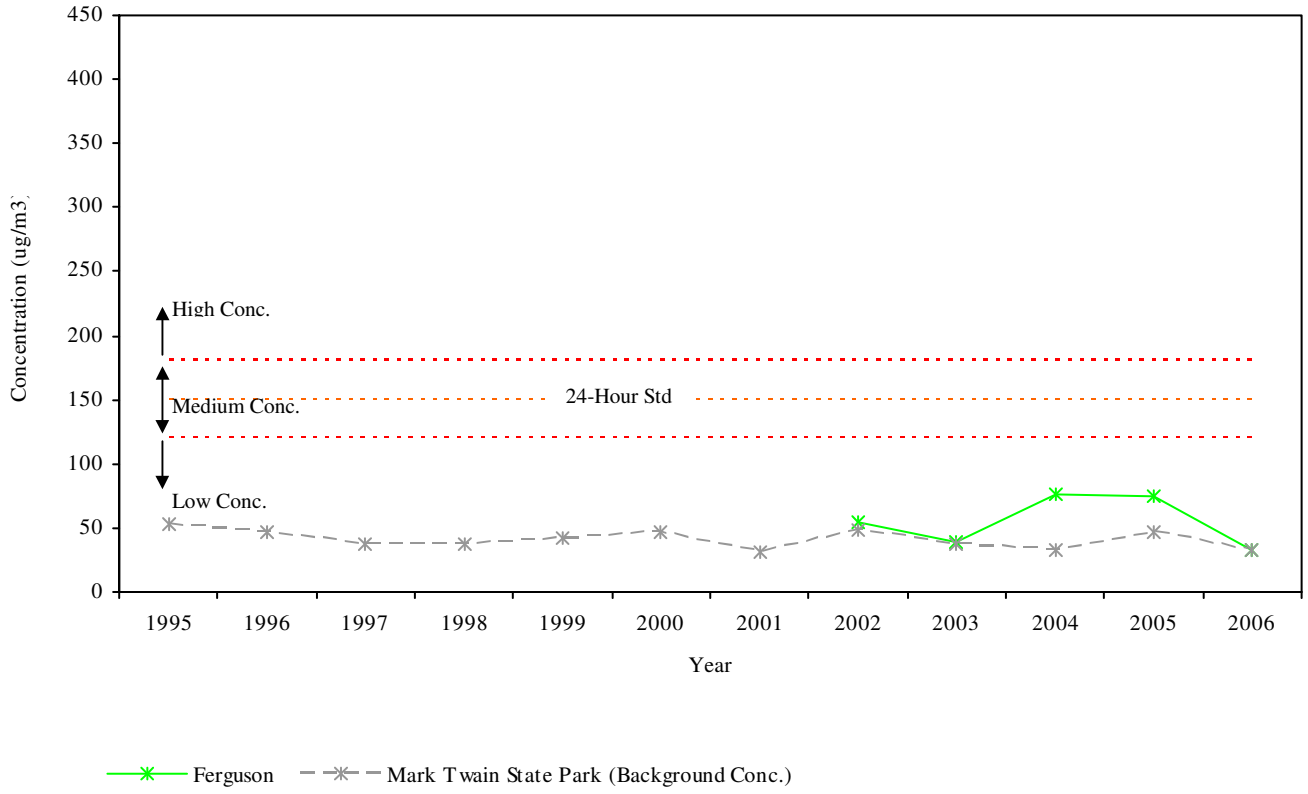


Figure 3: Current St. Louis Area (Excluding St. Louis City) PM_{10} Monitoring Sites and the 2004 PM_{10} Emissions Point Sources

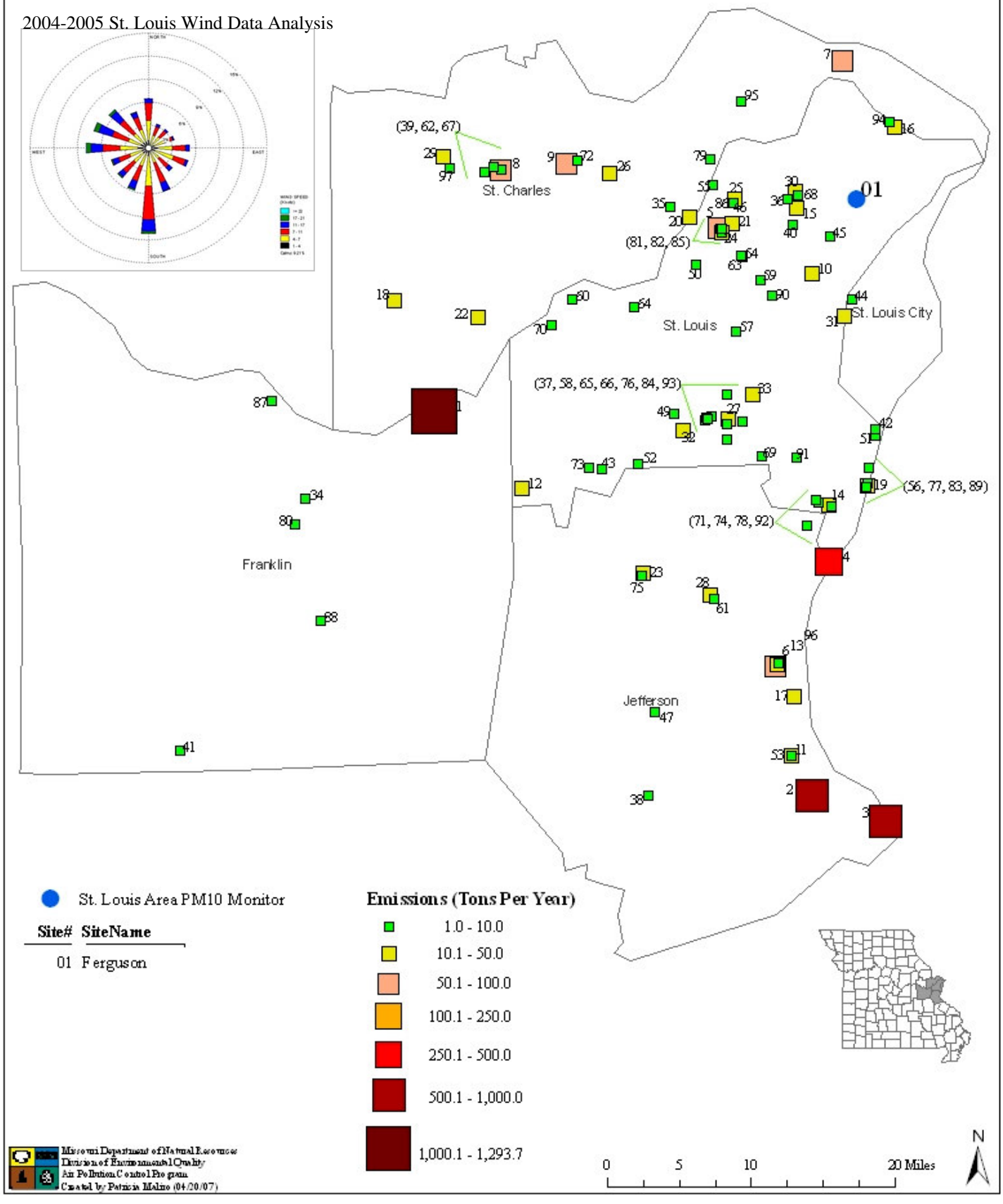
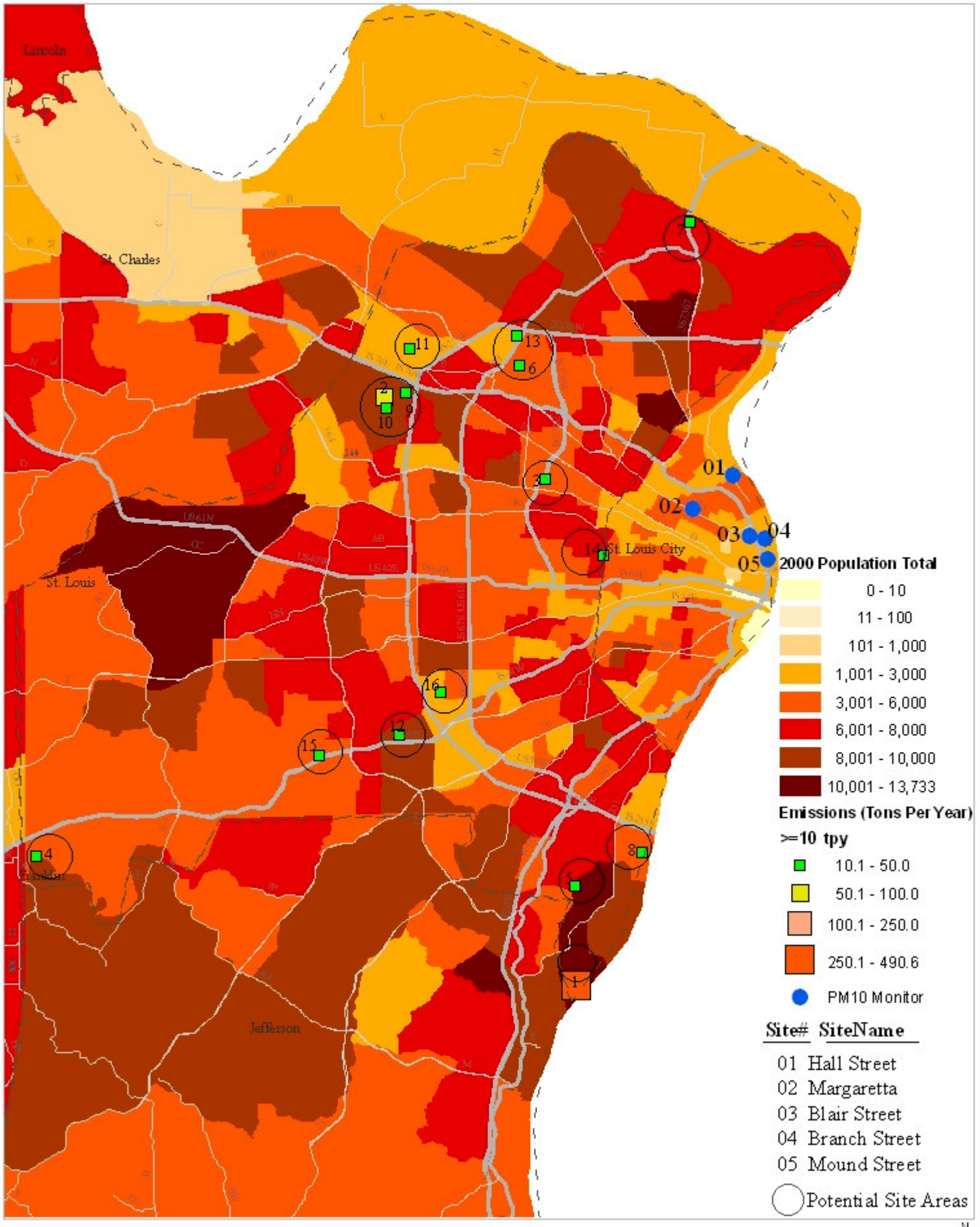
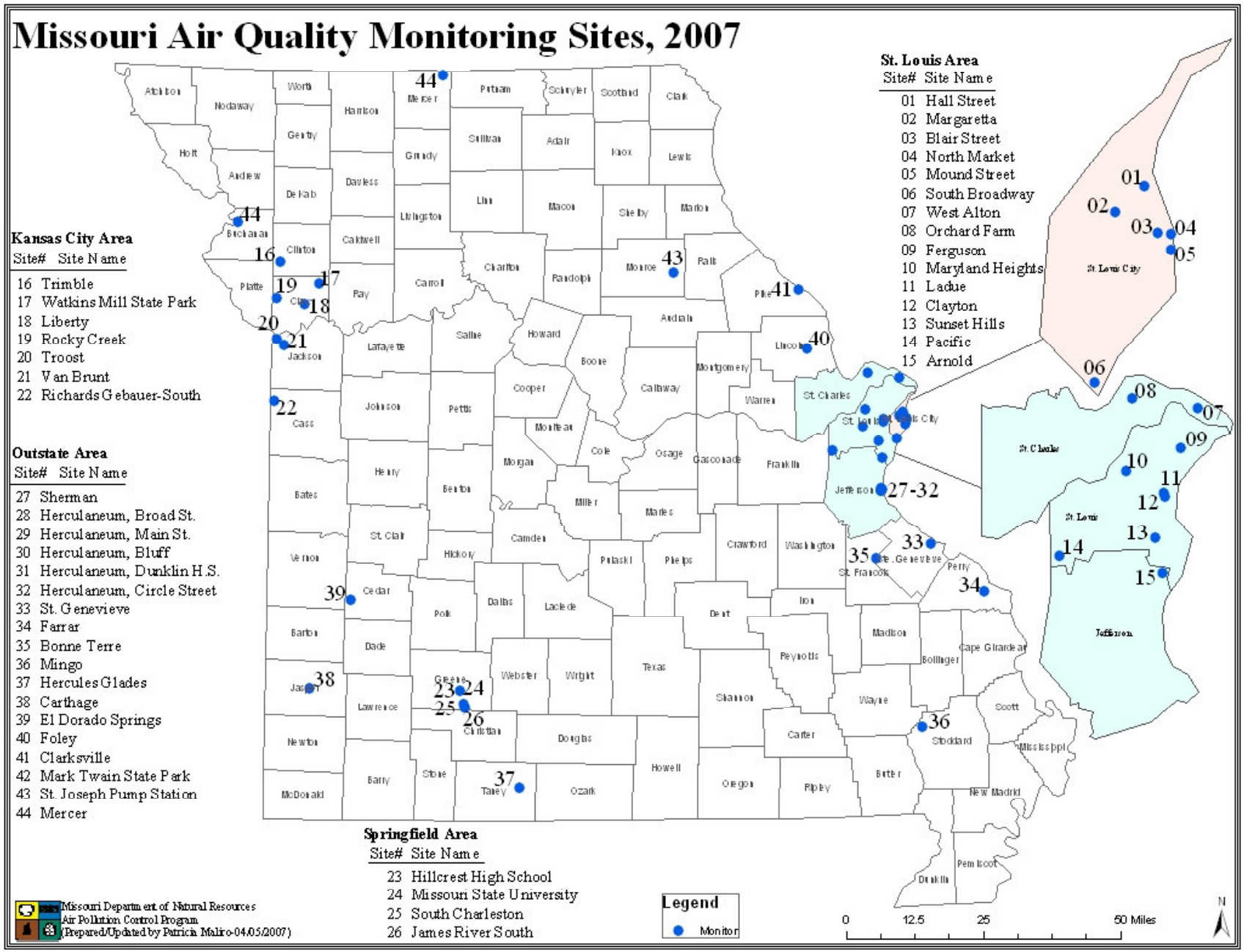


Figure 4: St. Louis County Potential Monitoring Site Areas



St. Louis County Area 2004 PM10 Emissions Point Sources

Facility Number	Facility Name	County	Emission (tpy)
1	AMERENUE	ST. LOUIS CO.	490.6152
2	FRED WEBER, INC - NORTH STONE	ST. LOUIS CO.	81.4725
3	BODINE ALUMINUM INC	ST. LOUIS CO.	47.7923
4	U. S. SILICA COMPANY	ST. LOUIS CO.	35.7095
5	FRED WEBER, INC - SOUTH STONE	ST. LOUIS CO.	31.1671
6	MCDONNELL DOUGLAS CORP./BOEING COMPANY	ST. LOUIS CO.	30.6637
7	CENTRAL STONE COMPANY #31	ST. LOUIS CO.	26.0859
8	BUSSEN QUARRIES INC	ST. LOUIS CO.	20.2271
9	FRED WEBER INC. - CRUSHING PLANT #5	ST. LOUIS CO.	19.0442
10	FRED WEBER INC SANITARY LANDFILL	ST. LOUIS CO.	15.5190
11	BRIDGETON LANDFILL, LLC	ST. LOUIS CO.	15.2760
12	DAIMLERCHRYSLER CORP. NORTH PLANT	ST. LOUIS CO.	13.6846
13	GKN AEROSPACE SERVICES INC	ST. LOUIS CO.	12.2614
14	WASHINGTON UNIVERSITY	ST. LOUIS CO.	10.8350
15	SIMPSON CONSTRUCTION MATERIALS LLC	ST. LOUIS CO.	10.3994
16	ST. JOSEPH HOSPITAL	ST. LOUIS CO.	10.1214



Missouri Air Quality Monitoring Sites, 2007

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Missouri Ambient Air Monitoring Network

MIC	***Microscale***	***1 to 100 square meters***
MID	***Middle***	***.1 to. 5 square kilometer***
NBR	***Neighborhood***	***.5 to 4 square kilometers***
REG	***Regional***	***> 10 square kilometers, rural***
URB	***Urban***	***4 to 50 square kilometers, city***
COM	***NAAQS Compliance***	
MET	***Meterological Data***	
RES	***Research***	
STA	***State Standard***	

City Utilities

Wildwood Lane

AQS Site Number 29-077-0040

1234 Wildwood Lane, Springfield, MO 12435

Latitude:	37.108889	***AQCR:***	139	SW Missouri
Longitude:	-93.252778	***MSA:***	7920	Springfield, MO
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*	*Method*	
Sulfur Dioxide	42401	1	☐	H	MID	COM	007 ppm	060	Pulsed fluorescent

Wisdom Lane

AQS Site Number 29-077-0041

5678 Wisdom Lane, Springfield, MO 12435

Latitude:	37.108611	***AQCR:***	139	SW Missouri
Longitude:	-93.272222	***MSA:***	7920	Springfield, MO
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*	*Method*	
Sulfur Dioxide	42401	1	☐	H	MID	COM	007 ppm	060	Pulsed fluorescent

Doe Run Buick

DRB # 5

AQS Site Number 29-093-0021

Latitude:	37.654167	***AQCR:***	138	SE Missouri
Longitude:	-91.130556	***MSA:***	0000	Not in a MSA
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	1	☐	1/6	MID	COM	001	ug/m^3	090	Emmission Spectra ICAP

DRB #1

AQS Site Number 29-093-0016

Latitude:	37.625278	***AQCR:***	138	SE Missouri
Longitude:	-91.129167	***MSA:***	0000	Not in a MSA
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	1	☑	1/6	NBR	COM	001	ug/m^3	090	Emmission Spectra ICAP

Doe Run Glover

DRG - Big Creek #5

AQS Site Number 29-093-0029

Latitude:	37.471667	***AQCR:***	138	SE Missouri
Longitude:	-90.689444	***MSA:***	0000	Not in a MSA
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	1	☐	1/6	NBR	COM	001	ug/m^3	090	Emmission Spectra ICAP

DRG - Post Office #2

AQS Site Number 29-093-0027

Latitude:	37.486111	***AQCR:***	138	SE Missouri
Longitude:	-90.69	***MSA:***	0000	Not in a MSA
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	1	☑	1/6	NBR	COM	001	ug/m^3	090	Emmission Spectra ICAP

Doe Run Herculaneum

Herculaneum, Bluff

AQS Site Number 29-099-0011

Latitude:	38.268889	**AQCR:**	070	Metropolitan St. Louis	
Longitude:	-90.373333	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	520				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Lead	12128	1	☐	1/3	NBR	COM	001	ug/m^3	090	Emmission Spectra ICAP

Herculaneum, Broad St.

AQS Site Number 29-099-0015

Broad St., Herclaneum, MO, 63048

Latitude:	38.261667	**AQCR:**	070	Metropolitan St. Louis	
Longitude:	-90.379722	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	500				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Lead	12128	1	☐	1/1	MID	COM	001	ug/m^3	113	Doe Run Spectra ICAP

Herculaneum, Dunklin

AQS Site Number 29-099-0005

1 Black Cat Dr., Herculaneum, MO, 63048

Latitude:	38.267222	**AQCR:**	070	Metropolitan St. Louis	
Longitude:	-90.379444	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	445				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Lead	12128	3	☑	1/3	MID	COM	001	ug/m^3	090	Emmission Spectra ICAP

Herculaneum, Main St.

AQS Site Number 29-099-0004

Main St., Herculaneum, MO, 63048

Latitude:	38.2633	**AQCR:**	070	Metropolitan St. Louis	
Longitude:	-90.3785	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	450				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit	Method

Lead	12128	2	☐	1/1	MID	COM	001	ug/m^3	113	Doe Run Spectra ICAP

Herculaneum, Sherman — *AQS Site Number* 29-099-0013

Latitude:	38.273611	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90380000	***MSA:***	7040	St. Louis, MO-IL
Elevation:	450			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	1	☐	1/6	NBR	COM	001	ug/m^3	090	Emmission Spectra ICAP

Environmental Service

Arnold — AQS Site Number 29-099-0012

Tenbrook & Arnold Tenbrook Rd., Arnold, MO 63010

Latitude:	38.437778	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90.361389	***MSA:***	7040	St. Louis, MO-IL
Elevation:	441			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
PM 2.5 Tot Atmospheric	88500	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC FDMS
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric
PM 2.5 AQI/Speciation	88502	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
PM 2.5 AQI/Speciation	88502	5	☐	1/3	NBR	RES	105	ug/m^3	850	R&P 2300 Seq Speciation
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging

Bonne Terre — AQS Site Number 29-186-0005

Smith Rd & Overview Rd,

Latitude:	37.896944	***AQCR:***	138	SE Missouri
Longitude:	-90.422222	***MSA:***	0000	Not in a MSA
Elevation:	840			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
PM 2.5 Tot Atmospheric	88500	3	☐	H	REG	AQI	105	ug/m^3	760	PM2.5 SCC FDMS
Resultant Wind Direct	61104	1	☐	H	REG	MET	014	deg	020	Vector Summation
PM 2.5 AQI/Speciation	88502	5	☐	1/3	REG	RES	105	ug/m^3	850	R&P 2300 Seq Speciation
Indoor Temperature	62107	1	☐	H	REG	MET	017	deg C	013	Electronic Averaging
Ozone	44201	1	☑	H	REG	COM	007	ppm	047	Ultra-violet Photometric
Nitrogen Dioxide	42602	1	☐	H	REG	COM	007	ppm	074	Chemiluminescence

Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging
Resultant Wind Speed	61103	1	☐	H	REG	MET	012	mph	020	Vector Summation
PM 2.5 AQI/Speciation	88502	3	☐	H	REG	AQI	105	ug/m^3	760	PM2.5 SCC

Carthage — AQS Site Number 29-097-0003

530 Juniper, Carthage, MO,

Latitude: 37.21 ***AQCR:*** 139 SW Missouri

Longitude: -94.307778 ***MSA:*** 3710 Joplin, MO

Elevation: 1002

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
PM10	81102	1	☐	1/3	MID	COM	001	ug/m^3	065	Hi-vol SA/GMW-321-C
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
PM10	81102	3	☐	H	MID	COM	001	ug/m^3	079	R&P SA246B TEOM

Clarksville — AQS Site Number 29-163-0002

22972 Pike Co. Rd, Clarksville, MO,

Latitude: 39.3726 ***AQCR:*** 137 Northern Missouri

Longitude: -90.9144 ***MSA:*** 0000 Not in a MSA

Elevation: 680

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Sulfur Dioxide	42401	1	☐	H	MID	COM	007	ppm	060	Pulsed fluorescent
Sulfur Dioxide 5-min	42406	1	☐	H	MID	COM	007	ppm	060	Pulsed Fluorescent
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging

El Dorado Springs — AQS Site Number 29-039-0001

Hiway 97 & Barnes Rd,

Latitude:	37.695833	***AQCR:***	139	SW Missouri
Longitude:	-94.0375	***MSA:***	0000	Not in a MSA
Elevation:	965			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Outdoor Temperature	62101	1	☐	H	REG	MET	015	deg F	040	Electronic Averaging
Indoor Temperature	62107	1	☐	H	REG	MET	017	deg C	013	Electronic Averaging
PM 2.5 AQI/Speciation	88502	5	☐	1/3	REG	RES	105	ug/m^3	707	IMPROVE Protocol
PM 2.5 AQI/Speciation	88502	3	☐	H	REG	AQI	105	ug/m^3	760	PM2.5 SCC
Ozone	44201	1	☐	H	REG	COM	007	ppm	047	Ultra-violet Photometric
Resultant Wind Speed	61103	1	☐	H	REG	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	REG	MET	014	deg	020	Vector Summation
PM 2.5 Tot Atmospheric	88500	3	☐	H	REG	AQI	105	ug/m^3	760	PM2.5 SCC FDMS

Farrar — AQS Site Number 29-157-0001

Hiway C & Farm Road 342, Farrar, MO,

Latitude:	37.6992	***AQCR:***	138	SE Missouri
Longitude:	-89.6909	***MSA:***	0000	Not in a MSA
Elevation:	497			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging

Foley — AQS Site Number 29-113-0003

#7 Wild Horse, Foley, MO,

Latitude:	39.0447	**AQCR:**	137	Northern Missouri	
Longitude:	-90.8647	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	715				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric

Herculaneum, Bluff — AQS Site Number 29-099-0011

Latitude:	38.268889	**AQCR:**	070	Metropolitan St. Louis	
Longitude:	-90.373333	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	520				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Lead	12128	2	☐	1/3	NBR	COM	001	ug/m^3	085	Emission Spectra ICAP

Herculaneum, Broad St. — AQS Site Number 29-099-0015

Broad St., Herclaneum, MO, 63048

Latitude:	38.261667	**AQCR:**	070	Metropolitan St. Louis	
Longitude:	-90.379722	**MSA:**	7040	St. Louis, MO-IL	
Elevation:	500				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Lead	12128	2	☐	1/1	MID	COM	001	ug/m^3	085	Emission Spectra ICAP

Herculaneum, Circle St.

AQS Site Number 29-099-0021

206 Circle Street, Herculaneum, MO 63048

Latitude:	38.264833	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90377667	***MSA:***	7040	St. Louis, MO-IL
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	2	☐	1/1	MID	COM	001	ug/m^3	085	Emission Spectra ICAP

Herculaneum, Dunklin

AQS Site Number 29-099-0005

1 Black Cat Dr., Herculaneum, MO, 63048

Latitude:	38.267222	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90.379444	***MSA:***	7040	St. Louis, MO-IL
Elevation:	445			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Lead	12128	1	☑	1/3	NBR	COM	001	ug/m^3	085	Emission Spectra ICAP

Herculaneum, Main St.

AQS Site Number 29-099-0004

Main St., Herculaneum, MO, 63048

Latitude:	38.2633	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90.3785	***MSA:***	7040	St. Louis, MO-IL
Elevation:	450			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
Lead	12128	1	☐	1/1	MID	COM	001	ug/m^3	085	Emission Spectra ICAP
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging
Sulfur Dioxide 5-min	42406	1	☑	H	MID	COM	007	ppm	060	Pulsed Fluorescent
Sulfur Dioxide	42401	1	☑	H	MID	COM	007	ppm	060	Pulsed fluorescent

Liberty — AQS Site Number 29-047-0005

116th, Liberty, MO,

Latitude:	39.303056	***AQCR:***	094	Metropolitan Kansas City
Longitude:	-94.376389	***MSA:***	3760	Kansas City, MO-KS
Elevation:	930			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Outdoor Temperature	62101	1	☐	H	URB	MET	015	deg F	040	Electronic Averaging
PM 2.5 Tot Atmospheric	88500	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC FDMS
PM 2.5 AQI/Speciation	88502	5	☐	1/3	NBR	RES	105	ug/m^3	850	R&P 2300 Seq Speciation
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential
Solar Radiation	63301	1	☐	H	URB	MET	025	Langley	011	Pyranometer
Resultant Wind Direct	61104	1	☐	H	URB	MET	014	deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	URB	MET	012	mph	020	Vector Summation
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric
PM 2.5 AQI/Speciation	88502	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC
Indoor Temperature	62107	1	☐	H	URB	MET	017	deg C	013	Electronic Averaging
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence

Mark Twain State Park — AQS Site Number 29-137-0001

Hiway V & 107, Mark Twain State Park, MO

Latitude:	39.473056	***AQCR:***	137	Northern Missouri
Longitude:	-91.789167	***MSA:***	0000	Not in a MSA
Elevation:	714			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Ozone	44201	1	☐	H	REG	COM	007	ppm	047	Ultra-violet Photometric
Indoor Temperature	62107	1	☐	H	REG	MET	017	deg C	013	Electronic Averaging
PM10	81102	1	☐	1/6	REG	COM	001	ug/m^3	065	Hi-vol SA/GMW-321-C
Resultant Wind Direct	61104	1	☐	H	REG	MET	014	deg	020	Vector Summation
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	060	Pulsed fluorescent
Resultant Wind Speed	61103	1	☐	H	REG	MET	012	mph	020	Vector Summation

Sulfur Dioxide 5-min	42406	1	☐	H	NBR	COM	007	ppm	060	Pulsed Fluorescent

Mercer

AQS Site Number 29-129-0001

Latitude:	40.56	**AQCR:**	137	Northern Missouri
Longitude:	-93.418333	**MSA:**	0000	Not in a MSA
Elevation:	1060			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
Ammonia	42604	1	☐	H	MID	STA	007	ppm	051	TECO17 Chemiluminescenc
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Hydrogen Sulfide	42402	1	☐	H	MID	STA	007	ppm	020	Pulsed fluorescent

Mound Street

AQS Site Number 29-510-0087

1716 N. 2nd St, St. Louis, MO,

Latitude:	38.642444	**AQCR:**	070	Metropolitan St. Louis
Longitude:	-90.185583	**MSA:**	7040	St. Louis, MO-IL
Elevation:				

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Benzene	45201	1	☐	H	MID	RES	008	ppb	157	OPSIS AR500
Mercury vapor	42242	1	☐	H	MID	RES	121	ppt	157	OPSIS AR500
Formaldehyde	43502	1	☐	H	MID	RES	008	ppb	157	OPSIS AR500
Toluene	45202	1	☐	H	MID	RES	008	ppb	157	OPSIS AR500
Resultant Wind Speed	61103	1	☐	H	MID	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	MID	MET	014	deg	020	Vector Summation

Orchard Farm — AQS Site Number 29-183-1004

2165 Hiway V, St. Charles, MO, 63301

Latitude:	38.902222	**AQCR:**	070	Metropolitan St. Louis
Longitude:	-90.446944	**MSA:**	7040	St. Louis, MO-IL
Elevation:	441			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
Ozone	44201	1	☑	H	URB	COM	007	ppm	047	Ultra-violet Photometric

RG - South — AQS Site Number 29-037-0003

1802 E. 203rd St, Belton, MO,

Latitude:	38.770278	**AQCR:**	094	Metropolitan Kansas City
Longitude:	-94.58	**MSA:**	3760	Kansas City, MO-KS
Elevation:	1072			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric
Resultant Wind Speed	61103	1	☐	H	URB	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	URB	MET	014	deg	020	Vector Summation
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential
Indoor Temperature	62107	1	☐	H	URB	MET	017	deg C	013	Electronic Averaging

Rocky Creek — AQS Site Number 29-047-0006

13131 Hiway 169 NE, Kansas City, MO

Latitude:	39.3322	**AQCR:**	094	Metropolitan Kansas City
Longitude:	-94.5806	**MSA:**	3760	Kansas City, MO-KS
Elevation:	983			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Resultant Wind Speed	61103	1	☐	H	URB	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	URB	MET	014	deg	020	Vector Summation
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric

St. Genevieve

AQS Site Number 29-186-0006

Latitude:	37.967222	**AQCR:**	138	SE Missouri
Longitude:	-90.051111	**MSA:**	0000	Not in a MSA
Elevation:	456			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential

St. Joseph Pump Station

AQS Site Number 29-021-0005

South Hiway 759, St. Joseph, MO,

Latitude:	39.741667	**AQCR:**	094	Metropolitan Kansas City
Longitude:	-94.858333	**MSA:**	7000	St. Joseph, MO
Elevation:	818			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM 2.5 AQI/Speciation	88502	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC
PM10	81102	1	☑	1/3	NBR	COM	001	ug/m^3	065	Hi-vol SA/GMW-321-C
PM 2.5 Tot Atmospheric	88500	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC FDMS
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential

Trimble

AQS Site Number 29-049-0001

7536 SW O Hiway,

Latitude:	39.5306	**AQCR:**	137	Northern Missouri
Longitude:	-94.556	**MSA:**	3760	Kansas City, MO-KS
Elevation:	1020			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric
Resultant Wind Speed	61103	1	☐	H	URB	MET	012	mph	020	Vector Summation
Indoor Temperature	62107	1	☐	H	URB	MET	017	deg C	013	Electronic Averaging
Resultant Wind Direct	61104	1	☐	H	URB	MET	014	deg	020	Vector Summation

Troost — AQS Site Number 29-095-0034

724 Troost, Kansas City, MO,

Latitude:	39.104722	***AQCR:***	094	Metropolitan Kansas City
Longitude:	-94.570556	***MSA:***	3760	Kansas City, MO-KS
Elevation:	900			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence
PM 2.5 Tot Atmospheric	88500	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC FDMS
PM10	81102	1	☐	1/6	NBR	COM	001	ug/m^3	065	Hi-vol SA/GMW-321-C
PM 2.5 FRM	88101	1	☑	1/1	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential
Sulfur Dioxide	42401	1	☐	H	MID	COM	007	ppm	060	Pulsed fluorescent
PM 2.5 AQI/Speciation	88502	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC

Unionville — AQS Site Number 29-171-0001

20010 Hiway 129, Unionville, MO, 63565

Latitude:	40.530111	***AQCR:***	137	Northern Missouri
Longitude:	-92909972	***MSA:***	0000	Not in a MSA
Elevation:	1032			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Hydrogen Sulfide	42402	1	☐	H	NBR	STA	007	ppm	020	Pulsed fluorescent
Ammonia	42604	1	☐	H	NBR	STA	007	ppm	051	TECO17 Chemiluminescenc
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Indoor Temperature	62107	1	☐	H	NBR	MET	017	deg C	013	Electronic Averaging
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation

Van Brunt — AQS Site Number 29-095-0035

5301 E. 27th, Kansas City, MO,

Latitude:	39.075833	**AQCR:**	094	Metropolitan Kansas City
Longitude:	-94.521389	**MSA:**	3760	Kansas City, MO-KS
Elevation:	895			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM10	81102	1	☐	1/6	NBR	COM	001	ug/m^3	065	Hi-vol SA/GMW-321-C

Watkins Mill State Park — AQS Site Number 29-047-0003

Watkins Mill Rd,

Latitude:	39.416667	**AQCR:**	094	Metropolitan Kansas City
Longitude:	-94.283333	**MSA:**	3760	Kansas City, MO-KS
Elevation:	987			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Indoor Temperature	62107	1	☐	H	URB	MET	017	deg C	013	Electronic Averaging
Ozone	44201	1	☑	H	NBR	COM	007	ppm	047	Ultra-violet Photometric
Resultant Wind Direct	61104	1	☐	H	URB	MET	014	deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	URB	MET	012	mph	020	Vector Summation

West Alton — AQS Site Number 29-183-1002

Hiway 94, West Alton, MO

Latitude:	38.8725	**AQCR:**	070	Metropolitan St. Louis
Longitude:	-90.226389	**MSA:**	7040	St. Louis, MO-IL
Elevation:	425			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging
Solar Radiation	63301	1	☐	H	NBR	MET	025	Langley	011	Pyranometer
Ozone	44201	1	☑	H	URB	COM	007	ppm	047	Ultra-violet Photometric
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential

Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence

Springfield

Hillcrest High School

AQS Site Number 29-077-0036

3319 N. Grant, Springfield, MO,

Latitude:	37.261944	***AQCR:***	139	SW Missouri
Longitude:	-93298056	***MSA:***	7920	Springfield, MO
Elevation:	1345			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*	*Method*	
Ozone	44201	1	☐	H	NBR	COM	007 ppm	047	Ultra-violet Photometric
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007 ppm	074	Chemiluminescence

James River South

AQS Site Number 29-077-0037

Latitude:	37.110000	***AQCR:***	139	SW Missouri
Longitude:	-93251944	***MSA:***	7920	Springfield, MO
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*	*Method*	
Sulfur Dioxide	42401	1	☑	H	MID	COM	007 ppm	060	Pulsed fluorescent
Resultant Wind Direct	61104	1	☐	H	URB	MET	014 deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	URB	MET	012 mph	020	Vector Summation

Missouri State University

AQS Site Number 29-077-0032

Missouri State University, Springfield, MO,

Latitude:	37.202578	***AQCR:***	139	SW Missouri
Longitude:	-93283333	***MSA:***	7920	Springfield, MO
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*	*Method*	
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007 ppm	060	Pulsed fluorescent
Carbon Monoxide	42101	1	☐	H	MID	COM	007 ppm	054	Non-dispersive Infrared
PM 2.5 FRM	88101	1	☑	1/3	NBR	COM	105 ug/m^3	118	R&P 2025 Sequential
PM10	81102	1	☑	1/6	NBR	COM	001 ug/m^3	062	Hi-vol wedding inlet

PM 2.5 Tot Atmospheric	88500	3	☐	H	NBR	COM	105	ug/m^3	791	other continuous PM2.5 met

South Charleston

AQS Site Number 29-077-0026

5012 S. Charleston, Springfield, MO,

Latitude:	37.128333	***AQCR:***	139	SW Missouri
Longitude:	-93261667	***MSA:***	7920	Springfield, MO
Elevation:				

Pollutant	***AQS Code***	***POC***	***Col***	***Freq***	***Scale***	***Obj***	***Unit***		***Method***	
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	060	Pulsed fluorescent

St. Louis City

Blair Street

AQS Site Number 29-510-0085

3247 Blair St, St. Louis, MO,

Latitude:	38.655556	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90.198333	***MSA:***	7040	St. Louis, MO-IL
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
PM 2.5 FRM	88101	1	☑	1/1	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential
VOCs	00000	1	☐	1/6	NBR	RES	008	ppb	T15	SUMMA cannister TO-15
Solar Radiation	63301	1	☐	H	NBR	MET	025	Langley	011	Pyranometer
Ozone	44201	1	☑	H	NBR	COM	007	ppm	087	Ultra-violet Absorption
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
PM 2.5 AQI/Speciation	88502	3	☐	H	NBR	AQI	105	ug/m^3	723	PM2.5 WINS w/o corr factor
Carbon Monoxide	42101	1	☐	H	MID	COM	007	ppm	011	Non-dispersive Infrared
PM 2.5 AQI/Speciation	88502	6	☐	1/3	NBR	RES	105	ug/m^3	820	Anderson RASS
Black Carbon	84313	1	☐	H	NBR	RES	008	ppb	862	Aethelometer
PM10	81102	1	☐	1/6	NBR	COM	001	ug/m^3	064	Hi-vol SA/GMW-321-B
PM 2.5 Raw Data	88501	3	☐	H	NBR	AQI	105	ug/m^3	723	PM2.5 WINS w/o corr TEOM

Branch St.

AQS Site Number 29-510-0093

100 Branch St, St. Louis, MO,

Latitude:	38.653716	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90186816	***MSA:***	7040	St. Louis, MO-IL
Elevation:				

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
PM10	81102	3	☐	H	MID	COM	001	ug/m^3	079	R&P SA246B TEOM
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation

PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential

Hall Street — AQS Site Number 29-510-0088

6204 Hall St., St. Louis, MO,

Latitude: 38.69075 ***AQCR:*** 070 Metropolitan St. Louis

Longitude: -90.209306 ***MSA:*** 7040 St. Louis, MO-IL

Elevation:

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM10	81102	1	☐	H	MID	COM	001	ug/m^3	081	Beta attenuation

Margaretta — AQS Site Number 29-510-0086

4520 Margaretta, St. Louis, MO,

Latitude: 38.672222 ***AQCR:*** 070 Metropolitan St. Louis

Longitude: -90.238889 ***MSA:*** 7040 St. Louis, MO-IL

Elevation:

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
PM10	81102	1	☐	1/6	NBR	COM	001	ug/m^3	064	Hi-vol SA/GMW-321-B
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	039	Ultra-violet stimulated
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence
Ozone	44201	1	☑	H	NBR	COM	007	ppm	087	Ultra-violet Absorption
Carbon Monoxide	42101	1	☐	H	MID	COM	007	ppm	011	Non-dispersive Infrared

Mound Street — AQS Site Number 29-510-0087

1716 N. 2nd St, St. Louis, MO,

Latitude: 38.642444 ***AQCR:*** 070 Metropolitan St. Louis

Longitude: -90.185583 ***MSA:*** 7040 St. Louis, MO-IL

Elevation:

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM 2.5 FRM	88101	1	☐	1/3	MID	COM	105	ug/m^3	118	R&P 2025 Sequential
PM10	81102	1	☐	1/6	MID	COM	001	ug/m^3	064	Hi-vol SA/GMW-321-B

South Broadway

AQS Site Number 29-510-0007

8227 S. Broadway, St. Louis, MO,

Latitude:	38.5425	***AQCR:***	070	Metropolitan St. Louis
Longitude:	-90.263611	***MSA:***	7040	St. Louis, MO-IL
Elevation:	485			

Pollutant	*AQS Code*	*POC*	*Col*	*Freq*	*Scale*	*Obj*	*Unit*		*Method*	
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	039	Ultra-violet stimulated
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential

St. Louis County

Clayton Animal Shelter

AQS Site Number 29-189-2003

77 Hunter Ave, Clayton, MO,

Latitude:	38.649722	**AQCR:**	070	Metropolitan St. Louis
Longitude:	-90.350556	**MSA:**	7040	St. Louis, MO-IL
Elevation:	528			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM 2.5 FRM	88101	1	☑	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential
Lead	12128	1	☐	1/6	NBR	COM	001	ug/m^3	803	Atomic Absorption

Ferguson

AQS Site Number 29-189-5001

3400 Pershall Rd, Ferguson, MO,

Latitude:	38.766111	**AQCR:**	070	Metropolitan St. Louis
Longitude:	-90.285833	**MSA:**	7040	St. Louis, MO-IL
Elevation:	551			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM10	81102	1	☑	1/6	NBR	COM	001	ug/m^3	062	Hi-vol wedding inlet

Ladue

AQS Site Number 29-189-3001

55 Hunter Ave, Clayton, MO,

Latitude:	38.641389	**AQCR:**	070	Metropolitan St. Louis
Longitude:	-90.345833	**MSA:**	7040	St. Louis, MO-IL
Elevation:	528			

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM 2.5 AQI/Speciation	88502	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC
PM 2.5 Tot Atmospheric	88500	3	☐	H	NBR	AQI	105	ug/m^3	760	PM2.5 SCC FDMS
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence

Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	039	Ultra-violet stimulated

Maryland Heights

AQS Site Number 29-189-0014

13044 Marine Ave, Maryland Hts, MO,

Latitude: 38.7109 ***AQCR:*** 070 Metropolitan St. Louis

Longitude: -90.4759 ***MSA:*** 7040 St. Louis, MO-IL

Elevation: 633

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging
Ozone	44201	1	☑	H	NBR	COM	007	ppm	087	Ultra-violet Absorption
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	039	Ultra-violet stimulated
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation

Pacific

AQS Site Number 29-189-0005

18701 Old Hiway 66, Pacific, MO,

Latitude: 38.4902 ***AQCR:*** 070 Metropolitan St. Louis

Longitude: -90.7052 ***MSA:*** 7040 St. Louis, MO-IL

Elevation: 524

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Ozone	44201	1	☑	H	NBR	COM	007	ppm	087	Ultra-violet Absorption

Sunset Hills

AQS Site Number 29-189-0004

4580 S. Lindbergh, Sunset Hills, MO,

Latitude: 38.5325 ***AQCR:*** 070 Metropolitan St. Louis

Longitude: -90.382778 ***MSA:*** 7040 St. Louis, MO-IL

Elevation: 600

Pollutant	AQS Code	POC	Col	Freq	Scale	Obj	Unit		Method	
PM 2.5 FRM	88101	1	☐	1/3	NBR	COM	105	ug/m^3	118	R&P 2025 Sequential

Carbon Monoxide	42101	1	☐	H	MID	COM	007	ppm	011	Non-dispersive Infrared
Sulfur Dioxide	42401	1	☐	H	NBR	COM	007	ppm	039	Ultra-violet stimulated
Nitrogen Dioxide	42602	1	☐	H	URB	COM	007	ppm	074	Chemiluminescence
Ozone	44201	1	☑	H	NBR	COM	007	ppm	087	Ultra-violet Absorption
Resultant Wind Speed	61103	1	☐	H	NBR	MET	012	mph	020	Vector Summation
Resultant Wind Direct	61104	1	☐	H	NBR	MET	014	deg	020	Vector Summation
Outdoor Temperature	62101	1	☐	H	NBR	MET	015	deg F	040	Electronic Averaging